

XP-002287554

AN - 1994-032009 [04]

- A - [001] 017 02& 034 038 04- 040 041 046 075 141 143 144 150 155 157 158
195 231 239 250 26- 273 303 31- 314 315 336 342 36& 437 44& 446 45-
475 512 541 545 575 583 589 609 688 724 725
- [002] 017 02& 038 04- 040 05- 075 08& 10- 143 144 157 17& 17- 195 229
230 231 24- 26- 273 303 314 315 342 36& 437 44& 446 45- 475 512 541
545 575 583 589 609 725
- [003] 017 038 075 143 144 157 195 231 239 250 303 31- 311 336 44& 575
583 589 724
- [004] 017 038 05- 075 08& 10- 143 144 157 17& 17- 195 229 230 231 24-
303 311 44& 575 583 589
- [005] 017 027 075 143 153 231 239 255 303 311 314 44& 475 720
- [006] 017 446 541 544

AP - JP19920152177 19920611; [Previous Publ. JP5339557]

CPY - MITK

DC - A17 A23 A81 G03

FS - CPI

IC - C09J163/00 ; C09J167/04 ; C09J175/04

KS - 0004 0012 0034 0037 0149 0152 0155 0202 0218 0220 0222 0224 0226 0231
0232 0233 1283 1288 1291 1292 1296 1311 1838 1840 1985 1990 1999 2001
2014 2015 2022 2231 2236 2307 2315 2319 2488 2511 2560 2585 2606 2607
2684

MC - A05-E02 A08-M05 A09-A07 A12-A05E G03-B02E3

PA - (MITK) MITSUI TOATSU CHEM INC

PN - JP3330390B2 B2 20020930 DW200271 C09J167/04 016pp
- JP5339557 A 19931221 DW199404 C09J167/04 016pp

PR - JP19920152177 19920611

XA - C1994-014805

XIC - C09J-163/00 ; C09J-167/04 ; C09J-175/04

- AB - J05339557 The compsn. contains thermoplastic resin and a tackifier,
one or both of them contg. poly-lactic acid or lactic acid copolymer
resin derived from lactic acid and other hydroxycarboxylic acids. The
system has a melt viscosity of 10 to 300,000 cps. at 180 to 210 deg.C.
A part or whole of the thermoplastic resin and/or tackifier is L type
and/or D type poly-lactic acid or lactic acid copolymer resin derived
from L type and/or D type lactic acid and other hydroxycarboxylic
acids. The thermoplastic resin is one of or a mixt. of two or more of
high molecular modified poly-lactic acid having a molecular wt. of
higher than 10,000 on average selected from (a) urethanated
poly-lactic acid, (b) esterified poly-lactic acid, (c) epoxy-modified
poly-lactic acid, (d) urethanated modified poly-lactic acid, (e)
silylated poly-lactic acid and (f) terminal esterified poly-lactic
acid. The tackifier is one or more of low molecular poly-lactic acid
having a mol. lower than 5,000 on average selected from (a) to (f).
Other thermoplastic resins are polyamide, polyester,
polyester-urethane, polycarbonate and polyolefin and other tackifiers
are rosin ester and terpene-phenol resin. At least one wax component
selected from natural wax, ester-amide wax and polyester wax and/or
compatibilising plasticiser for poly-lactic acid is added to the
compsn. in amt. 0.1 to 50 wt.%.
- ADVANTAGE - The hot-melt adhesive compsn. is degraded by alkali water

and microorganisms. Suitable for bonding of biodegradable plastics.(Dwg.0/0)

IW - ADHESIVE COMPOSITION BOND BIODEGRADABLE PLASTICS CONTAIN HIGH MOLECULAR THERMOPLASTIC RESIN TACKIFIER CONTAIN POLY LACTIC ACID COPOLYMER RESIN

IKW - ADHESIVE COMPOSITION BOND BIODEGRADABLE PLASTICS CONTAIN HIGH MOLECULAR THERMOPLASTIC RESIN TACKIFIER CONTAIN POLY LACTIC ACID COPOLYMER RESIN

NC - 001

OPD - 1992-06-11

ORD - 1993-12-21

PAW - (MITK) MITSUI TOATSU CHEM INC

TI - Hot=melt adhesive compsn for bonding biodegradable plastics - contains high mol thermoplastic resin and tackifier, either or both contg poly:lactic acid copolymer resin

A01 - [001] G2108-R D01 D60 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; M9999 M2391 ; P0839-R F41 ; H0011-R ; H0317 ; M9999 M2824 ;

- [002] G2108-R D01 D60 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; P0839-R F41 ; H0011-R ; H0317 ; M9999 M2186 ; M9999 M2153-R ;

- [003] G2108-R D01 D60 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; P0839-R F41 ; H0011-R ; H0317 ; M9999 M2175 ;

- [004] H0317 ; P0635-R F70 ; P0839-R F41 ; P0862 P0839 F41 F44 ;

- [005] H0317 ; P0931-R P1592 P0839 H0260 F41 F77 ;

- [006] G0033-R G0022 D01 D02 D51 D53 ; H0000 ; H0011-R ; H0317 ; P1150 ;

- [007] ND01 ; ND04 ; Q9999 Q6666 Q6644 ; B9999 B5094 B4977 B4740 ; K9745-R ; B9999 B3612 B3554 ; N9999 N5721-R ; B9999 B3032 B3010 ;

- [008] A999 A771 ; A999 A680 ;

- [009] D63 F70 F41 ; S9999 S1376 ; A999 A340-R ; A999 A771 ;

- [010] A999 A113 ; A999 A384 ; A999 A760 ;

A02 - [001] G2108-R D01 D60 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; P0839-R F41 ; H0011-R ; H0317 ; M9999 M2777 ;

- [002] ND01 ; ND04 ; Q9999 Q6666 Q6644 ; B9999 B5094 B4977 B4740 ; K9745-R ; B9999 B3612 B3554 ; N9999 N5721-R ; B9999 B3032 B3010 ;

- [003] Si 4A ; H0157 ;

- [004] A999 A680 ;

- [005] D63 F70 F41 ; S9999 S1376 ; A999 A340-R ; A999 A771 ;

- [006] A999 A113 ; A999 A384 ; A999 A760 ;

A03 - [001] G2108-R D01 D60 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; A999 A782 ; A999 A680 ; A999 A771 ; P0839-R F41 ; H0011-R ; H0317 ; M9999 M2391 ; M9999 M2824 ;

- [002] G2108-R D01 D60 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; A999 A782 ; A999 A680 ; A999 A771 ; P0839-R F41 ; H0011-R ; H0317 ; M9999 M2153-R ; M9999 M2186 ;

- [003] G2108-R D01 D60 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; A999 A782 ; A999 A680 ; A999 A771 ; P0839-R F41 ; H0011-R ; H0317 ; M9999 M2175 ;

- [004] B9999 B5094 B4977 B4740 ;

A04 - [001] G2108-R D01 D60 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; P0839-R F41 ; H0011-R ; H0317 ; A999 A782 ; A999

A680 ; A999 A771 ; M9999 M2777 ;
- [002] B9999 B5094 B4977 B4740 ;
- [003] Si 4A ; H0157 ;
A05 - [001] R24027-R P0599 D01 D60 F35 ; M9999 M2186 ; A999 A782 ; A999
A680 ; A999 A771 ;
- [002] P0624 ; A999 A782 ; A999 A680 ; A999 A771 ;
- [003] P0839-R F41 ; A999 A782 ; A999 A771 ; A999 A340-R ; S9999
S1376 ;
A06 - [001] P0000 ;
- [002] B9999 B3021 B3010 ; N9999 N5721-R ;

THIS PAGE BLANK (USPTO)